MAY 2 0 2004 &

SEQUENCE LISTING

| <110> Mi | sra and | Kay | | | | | | | | | | | |
|--|------------------------------|--------|------|-----|-----|------|-------|-------|-------|------|------|----|-----|
| <120> Tra | angenic Pathoge | | that | are | Res | ista | nt to | o a : | Broad | d Sp | ectr | um | |
| <130> 60 | 60993 | | | | | | | | | | | | |
| | 09/936,885 2001-09-17 | | | | | | | | | | | | |
| | > 60/125,072 > 1999-03-17 | | | | | | | | | | | | |
| <150> PCT/CA00/00288 <151> 2000-03-16 | | | | | | | | | | | | | |
| <160> 42 | | | | | | | | | | | | | |
| <170> PatentIn Ver. 2.0 | | | | | | | | | | | | | |
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| atg gat a Met Asp I | | | | | | | | | | | | | 105 |
| gtt tcc (Val Ser I | | Ile Cy | | Glu | Glu | Lys | Arg | Glu | Asn | Glu | | | 153 |
| gag aaa d Glu Lys (| _ | | _ | _ | _ | _ | _ | _ | _ | _ | | | 201 |
| gat gtg t Asp Val I 50 | | | | | | | | | | | | | 249 |
| gct tta g Ala Leu (65 | | Val Al | _ | | | _ | | | | | taa | | 294 |
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<213> Phyllomedusa bicolor

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Val Ser Leu Ser Ile Cys Glu Glu Glu Lys Arg Glu Asn Glu Asp Glu 20 25 30

Glu Lys Gln Asp Asp Glu Gln Ser Glu Met Lys Arg Ala Met Trp Lys
35 40 45

Asp Val Leu Lys Lys Ile Gly Thr Val Ala Leu His Ala Gly Lys Ala 50 55 60

Ala Leu Gly Ala Val Ala Asp Thr Ile Ser Gln Gly Glu Gln 65 70 75

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Ala Leu Gly Ala Val Ala Asp Thr Ile Ser Gln
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<213> Phyllomedusa bicolor

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20 25 30

<210> 5

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<212> PRT

<213> Pachymedusa dacnicolor

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Ser Lys Lys Ala Ala Gly Lys Ala Ala Leu Gly Ala Val Ser Glu Ala
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Leu Gly Glu Gln
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Ala Val Leu Asn Ala Val Thr Asn Met Ala Asn Gln Asn Glu Gln
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Ala Asn Leu Pro Ala Lys Ala Ala Leu Gly Ala Ile Ser Glu Ala Val
Gly Glu Gln
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Ala Ala Leu Gly Ala Val Lys Thr Leu Ala Gly Glu Gln
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Ala Leu Asn Ala Val Leu Val Gly Ala Asn Ala
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<220>
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                                                           Met Phe
acc ttg aag aaa tcc ctc tta ctc ctt ttc ttc ctt ggg acc atc aac
                                                                   106
Thr Leu Lys Lys Ser Leu Leu Leu Phe Phe Leu Gly Thr Ile Asn
          5
                             10
                                                 15
tta tct ctc tgt gag gaa gag aga gat gcc gat gaa gaa aga aga gat
Leu Ser Leu Cys Glu Glu Glu Arg Asp Ala Asp Glu Glu Arg Asp
    20
                         25
gat ctc gaa gaa agg gat gtt gaa gtg gaa aag cga ttt ttt cca gtg
Asp Leu Glu Glu Arg Asp Val Glu Val Glu Lys Arg Phe Phe Pro Val
35
                     40
                                                              50
att gga agg ata ctc aat ggt att ttg gga aaa taa ccaaaaaaaag
                                                                   248
Ile Gly Arg Ile Leu Asn Gly Ile Leu Gly Lys
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acatcaaatg tcttataaaa a
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 Ile Asn Leu Ser Leu Cys Glu Glu Glu Arg Asp Ala Asp Glu Glu Arg
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 Arg Asp Leu Glu Glu Arg Asp Val Glu Val Glu Lys Arg Phe Phe
 Pro Val Ile Gly Arg Ile Leu Asn Gly Ile Leu Gly Lys
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 Phe Leu Pro Leu Ile Gly Arg Val Leu Ser Gly Ile Leu
 <210> 19
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Phe Leu Pro Leu Ile Gly Lys Val Leu Ser Gly Ile Leu
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<210> 24
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Leu Ser Pro Asn Leu Leu Lys Ser Leu Leu Gly Lys
                                     10
<210> 25
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Leu Leu Pro Asn Leu Leu Lys Ser Leu Leu
              5
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Phe Val Gln Trp Phe Ser Lys Phe Leu Gly Arg Ile Leu
<210> 27
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                                                                   48
Met Ala Met Trp Lys Asp Val Leu Lys Lys Ile Gly Thr Val Ala Leu
                                                                   96
cat gca ggg aag gcc gcg ctt gga gca gta gcc gac acc atc tcg cag
His Ala Gly Lys Ala Ala Leu Gly Ala Val Ala Asp Thr Ile Ser Gln
             20
                                 25
taa
                                                                   99
<210> 28
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Met Ala Met Trp Lys Asp Val Leu Lys Lys Ile Gly Thr Val Ala Leu
His Ala Gly Lys Ala Ala Leu Gly Ala Val Ala Asp Thr Ile Ser Gln
<210> 29
<211> 57
<212> DNA
<213> Artificial Sequence
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<210> 30
<211> 63
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agt
<210> 31
<211> 31
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<223> Description of Artificial Sequence: PCR primer
<400> 31
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tctagaggta ccatggccat gtggaaagac g
<210> 32
<211> 38
<212> DNA
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<220>
<223> Description of Artificial Sequence: PCR primer
<400> 32
caagettetg cagagetett actgegagat ggtgtegg
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<210> 33
<211> 60
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<220>
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<222> (1)..(57)
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Met Ala Ser Arg His Met Phe Leu Pro Leu Ile Gly Arg Val Leu Ser
                                      10
                                                           15
gga atc ctg taa
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Gly Ile Leu
<210> 34
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<212> PRT
<213> Rana temporaria
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<400> 34
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Gly Ile Leu
<210> 35
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<212> DNA
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<400> 35
atgtttctgc ccctaatcgg gagggttctc tcgggaatcc tgtaa
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<210> 36
<211> 45
<212> DNA
<213> Artificial Sequence
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<223> Description of Artificial Sequence:PCR primer
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<210> 37
<211> 30
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: PCR primer
<400> 37
ggtacctcta gacatatgtt tctgccccta
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<210> 38
<211> 29
<212> DNA
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<400> 38
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ctgcagagct cttacaggat tcccgagag
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Ala Leu Trp Lys
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<210> 42
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<400> 42
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